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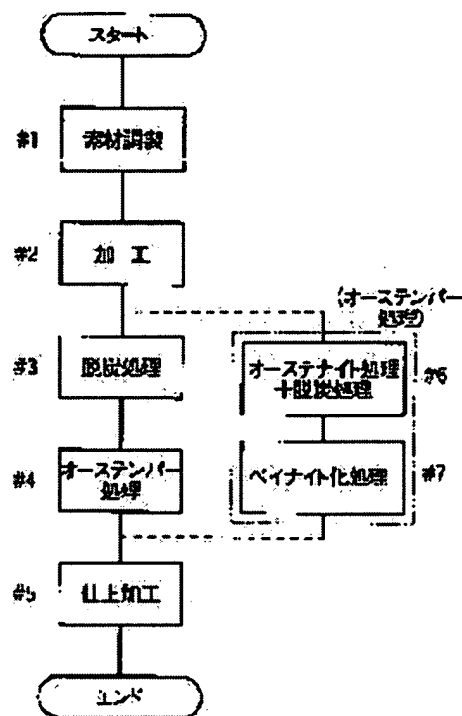
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## (54) FERROUS MEMBER AND ITS MANUFACTURE

### (57)Abstract:

PURPOSE: To provide a ferrous member high in the coefficient of thermal expansion, having high seizing resistance to an aluminum alloy and good in workability and its manufacturing method.

CONSTITUTION: Steel or cast iron contg. C, Si and Mn is subjected to decarburizing treatment and is thereafter subjected to austempering treatment or is subjected to decarburizing treatment at the time of austempering treatment to form its structure into a mixed one contg. ferrite and retained austenite on the surface part or a mixed one contg. ferrite, retained austenite and bainite. In the case the stock is made of steel, it contains, by weight, 0.7 to 1.2% C, 1.5 to 2.5% Si and 0.5 to 2.0% Mn, and in the case the stock is made of cast iron, it contains 2.6 to 4.0% C, 1.5 to 2.5% Si and 0.2 to 1.0% Mn. Preferably, an aluminum alloy member is used as its mate.



## LEGAL STATUS

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